## ABSTRACT

A wireless LAN comprises an access point with a data communicator for data communicated over different channels, each using a respective wireless technology, and at least one mobile communications device with a data communicator for data communicated over the channels and using the wireless technologies. A first of the channels uses a wireless technology operating at a first frequency bandwidth, and a second of the channels uses a different wireless technology operating at a second, non-overlapping frequency bandwidth. The wireless technology used for the downlink channel operates at a higher data rate than the wireless technology used for the uplink channel. The controller controls data communications over the downlink channel and the uplink channel to maximise the downlink data communication QoS .